

EXAMPLE SCENARIO 11

TABLE 9.1.RME  
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs  
REASONABLE MAXIMUM EXPOSURE

The Dean Company

Scenario Timeframe: Future
Receptor Population: Resident
Receptor Age: Adult

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk					Non-Carcinogenic Hazard Quotient						
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Groundwater	Groundwater	Aquifer 1 - Tap Water	Bis(2-ethylhexyl)phthalate	7E-07	--	1E-06	--	2E-06	Liver	0.007	--	0.01	0.02		
			Chloroform	5E-07	--	1E-06	--	2E-06	Liver	0.03	--	0.05	0.08		
			Heptachlor	1E-03	--	6E-04	--	2E-03	Liver	2	--	0.8	3		
			Barium	--	--	--	--	--	Heart	0.2	--	--	0.2		
			Lead (1)	--	--	--	--	--	--	--	--	--	--		
			Manganese	--	--	--	--	--	Central Nervous System	17	--	--	17		
			Uranium	--	--	--	--	--	Kidneys	3	--	--	3		
			Chemical Total	1E-03	--	6E-04	--	2E-03		22	--	0.9	23		
			Uranium 238	9E-06	--	--	--	9E-06							
			Radium 226	2E-05	--	--	--	2E-05							
			Radionuclide Total	3E-05	--	--	--	3E-05							
Exposure Point Total								2E-03					23		
Exposure Medium Total								2E-03					23		
Air	Air	Water Vapors from Showerhead	Bis(2-ethylhexyl)phthalate	--	--	--	--	--	--	--	--	--	--		
			Chloroform	--	1E-05	--	--	1E-05	Liver	--	5	--	5		
			Heptachlor	--	1E-03	--	--	1E-03	--	--	--	--	--		
			Barium	--	--	--	--	--	--	--	--	--	--		
			Lead (1)	--	--	--	--	--	--	--	--	--	--		
			Manganese	--	--	--	--	--	--	--	--	--	--		
			Uranium	--	--	--	--	--	--	--	--	--	--		
			Chemical Total	--	1E-03	--	--	1E-03		--	5	--	5		
			Radionuclide Total												
			Exposure Point Total					1E-03					5		
Exposure Medium Total								1E-03					5		

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Groundwater Total								3E-03					28

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				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ(s)	Ingestion	Inhalation	Dermal	Exposure Routes Total		
Soil	Soil	Soil at Site 1	4,4'-DDD	5E-08	--	--	--	5E-08	--	--	--	--	--		
			4,4'-DDE	1E-06	--	--	--	1E-06	--	--	--	--	--		
			4,4'-DDT	5E-06	--	5E-07	--	6E-06	Liver	0.08	--	0.009	0.09		
			Aluminum	--	--	--	--	--	Central Nervous System	0.01	--	--	0.01		
			Lead (1)	--	--	--	--	--	--	--	--	--	--		
			Manganese	--	--	--	--	--	Central Nervous System	0.002	--	--	0.002		
			Uranium	--	--	--	--	--	Kidney	0.3	--	--	0.3		
			Chemical Total	6E-06	--	5E-07	--	7E-06		0.4	--	0.009	0.4		
			Uranium 238	2E-07	--	--	2E-06	2E-06							
			Radium 226	1E-006	--	--	4E-04	4E-04							
			Radionuclide Total	1E-06			4E-04	4E-04							
Exposure Point Total								4E-04					0.4		
Exposure Medium Total								4E-04					0.4		
Soil Total								4E-04					0.4		
Receptor Total								3E-03					28		

Total Risk Across All Media

3E-03

Total Hazard Across All Media

28

(1) Lead is evaluated for the resident using the IEUBK model. See Risk Assessment text for discussion of results and appendix for the lead modeling run results.

Total Liver HI Across All Media =

8

Total Kidney HI Across All Media =

3

Total Central Nervous System HI Across All Media =

17